

Alignment of human Slit-1 (SEQ ID NO:02), human Slit-2 (SEQ ID NOS:03-06), *Drosophila* Slit-1 (SEQ ID NO:07), *C. elegans* Slit-1 (SEQ ID NOS:08-09), mouse Slit-2 (SEQ ID NOS:10-11) and mouse Slit-1 (SEQ ID NOS:12-14).

1 M A A P S R T T L M P P P F R L Q L R L - L I L P I L L L L R H D A V H A E P Y D-Slit
1 M R G V G W Q - - - - - M L S L S L G L V L A I L - - - - - H-Slit1

40 S G G F G S S A V S S G G L G S V G I H I P G G G V G V I T E A R C P R V C S C D-Slit
21 - - - - - - - - - - - - - - - - N K V A P Q A C P A Q C S C H-Slit1

80 T G L N V D C S H R G L T S V P R K I S A D V E R L E L Q G N N L T V I Y E T D D-Slit
35 S G S T V D C H G L A L R S V P R N I P R N T E R L D L N G N N I T R I T K T D H-Slit1

120 F Q R L T K L R M L Q L T D N Q I H T I E R N S F Q D L V S L E R L - - - - - D-Slit
75 F A G L R H L R V L Q L M E N K I S T I E R G A F Q D L K E L E R L R L N R N H H-Slit1
1 - - - - - H L R V L Q L M E N R I S T I E R G A F Q D L K E L E R L R L N R N N M-Slit1

154 - - - - - - - - - - - - - - - D I S N N V I T T V G R R V F K G A Q S L R D-Slit
115 L Q L F P E L L F L G T A K L Y R L D L S E N Q I Q A I P R K A F R G A V D I K H-Slit1
36 L Q L F P E L L F L G T A R L Y R L D L S E N Q I Q A I P R K A F R G A V D I K M-Slit1

176 S L Q L D N N Q I T C L D E H A F K G L V E L E I L T L N N N N L T S L P H N I D-Slit
155 N L Q L D Y N Q I S C I E D G A F R A L R D L E V L T L N N N N I T R L S V A S H-Slit1
76 N L Q L D Y N Q I S C I E D G A F R A L R D L E V L T L N N N N I T R L S V A S M-Slit1

216 F G G L G R L R A L R L S D N P F A C D C H L S W L S R F L R S A T R L A P Y T D-Slit
195 F N H M P K L R T F R L H S N N L Y C D C H L A W L S D W L R K R P R V G L Y T H-Slit1
116 F N H M P K L R T F R L H S N N L Y C M-Slit1

256 R C Q S P S Q L K G Q N V A D L H D Q E F K C S G L T E - H A P M - - - E C G A D-Slit
235 Q C M G P S H L R G H N V A E V Q K R E F V C S D E E E G H Q S F M A P S C S V H-Slit1

292 E N S C P H P C R C A D G I V D C R E K S L T S V P V T L P D D T T D V R L E Q D-Slit
275 L H - C P A A C T C S N N I V D C R G K G L T E I P T N L P E T I T E I R L E Q H-Slit1
1 - - - - - S P C T C S N N I V D C R G K G L M E I P A N L P E G I V E I R L E Q H-Slit2

332 N F I T E L P P K S F S S F R R L R R I D L S N N N I S R I A H D A L S G L K Q D-Slit
314 N T I K V I P P G A F S P Y K K L R R I D L S N N Q I S E L A P D A F Q G L R S H-Slit1
36 N S I K A I P A G A F T Q Y K K L K R I D I S K N O I S D I A P D A F Q G L K S H-Slit2

372 L T T L V L Y G N K I K D L P S G V F K G L G S L R L L L L N A N E I S C I R K D-Slit
354 L N S L V L Y G N K I T E L P K S L F E G L F S L Q L L L L N A N K I N C L R V H-Slit1
76 L T S L V L Y G N K I T E I A K G L F D G L V S L Q L L L L H-Slit2

1 R CE-Slit
412 D A F R D L H S L S L L S L Y D N N I Q S L A N G T F D A M K S M K T V H L A K D-Slit
394 D A F Q D L H N L N L L S L Y D N K L O T I A K G T F S P L R A I Q T M H L A Q H-Slit1

Table 2.

Alignment of human Slit-1 (SEQ ID NO:02) and Drosophila Slit-1 (SEQ ID NO:07)

1	M	A	A	P	S	R	T	T	L	M	P	P	P	F	R	L	Q	L	R	L	-	L	I	L	P	I	L	L	L	R	H	D	A	V	H	A	E	P	Y	D-Slit		
1	M	R	G	V	G	W	Q	-	-	-	-	-	-	-	M	L	S	L	S	L	G	L	V	L	A	I	L	-	-	-	-	-	-	-	-	-	-	-	-	-	H-Slit1	
40	S	G	G	F	G	S	S	A	V	S	S	G	G	L	G	S	V	G	I	H	I	P	G	G	V	G	V	I	T	E	A	R	C	P	R	V	C	S	C	D-Slit		
21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	N	K	V	A	P	Q	A	C	P	A	Q	C	S	C	H-Slit1
80	T	G	L	N	V	D	C	S	H	R	G	L	T	S	V	P	R	K	I	S	A	D	V	E	R	L	E	L	Q	G	N	N	L	T	V	I	Y	E	T	D	D-Slit	
35	S	G	S	T	V	D	C	H	G	L	A	L	R	S	V	P	R	N	I	P	R	N	T	E	R	L	D	L	N	G	N	N	I	T	R	I	T	K	T	D	H-Slit1	
120	F	Q	R	L	T	K	L	R	M	L	Q	L	T	D	N	Q	I	H	T	I	E	R	N	S	F	Q	D	L	V	S	L	E	R	L	-	-	-	-	-	D-Slit		
75	F	A	G	L	R	H	L	R	V	L	Q	L	M	E	N	K	I	S	T	I	E	R	G	A	F	Q	D	L	K	E	L	E	R	L	R	L	N	R	N	H	H-Slit1	
154	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	D	I	S	N	N	V	I	T	T	V	G	R	R	V	F	K	G	A	Q	S	L	R	D-Slit		
115	L	Q	L	F	P	E	L	L	F	L	G	T	A	K	L	Y	R	L	D	L	S	E	N	Q	I	Q	A	I	P	R	K	A	F	R	G	A	V	D	I	K	H-Slit1	
176	S	L	Q	L	D	N	N	Q	I	T	C	L	D	E	H	A	F	K	G	L	V	E	L	E	I	L	T	L	N	N	N	N	L	T	S	L	P	H	N	I	D-Slit	
155	N	L	Q	L	D	Y	N	Q	I	S	C	I	E	D	G	A	F	R	A	L	R	D	L	E	V	L	T	L	N	N	N	N	I	T	R	L	S	V	A	S	H-Slit1	
216	F	G	G	L	G	R	L	R	A	L	R	L	S	D	N	P	F	A	C	D	C	H	L	S	W	L	S	R	F	L	R	S	A	T	R	L	A	P	Y	T	D-Slit	
195	F	N	H	M	P	K	L	R	T	F	R	L	H	S	N	N	L	Y	C	D	C	H	L	A	W	L	S	D	W	L	R	K	R	P	R	V	G	L	Y	T	H-Slit1	
256	R	C	Q	S	P	S	Q	L	K	G	Q	N	V	A	D	L	H	D	Q	E	F	K	C	S	G	L	T	E	-	H	A	P	M	-	-	-	E	C	G	A	D-Slit	
235	Q	C	M	G	P	S	H	L	R	G	H	N	V	A	E	V	Q	K	R	E	F	V	C	S	D	E	E	E	G	H	Q	S	F	M	A	P	S	C	S	V	H-Slit1	
292	E	N	S	C	P	H	P	C	R	C	A	D	G	I	V	D	C	R	E	K	S	L	T	S	V	P	V	T	L	P	D	D	T	T	D	V	R	L	E	Q	D-Slit	
275	L	H	-	C	P	A	A	C	T	C	S	N	N	I	V	D	C	R	G	K	G	L	T	E	I	P	T	N	L	P	E	T	I	T	E	I	R	L	E	Q	H-Slit1	
332	N	F	I	T	E	L	P	P	K	S	F	S	S	F	R	R	L	R	R	I	D	L	S	N	N	N	I	S	R	I	A	H	D	A	L	S	G	L	K	Q	D-Slit	
314	N	T	I	K	V	I	P	P	G	A	F	S	P	Y	K	K	L	R	R	I	D	L	S	N	N	Q	I	S	E	L	A	P	D	A	F	Q	G	L	R	S	H-Slit1	
372	L	T	T	L	V	L	Y	G	N	K	I	K	D	L	P	S	G	V	F	K	G	L	G	S	L	R	L	L	L	N	A	N	E	I	S	C	I	R	K	D-Slit		
354	L	N	S	L	V	L	Y	G	N	K	I	T	E	L	P	K	S	L	F	E	G	L	F	S	L	Q	L	L	L	N	A	N	K	I	N	C	L	R	V	H-Slit1		
412	D	A	F	R	D	L	H	S	L	S	L	L	S	L	Y	D	N	N	I	Q	S	L	A	N	G	T	F	D	A	M	K	S	M	K	T	V	H	L	A	K	D-Slit	
394	D	A	F	Q	D	L	H	N	L	N	L	L	S	L	Y	D	N	K	L	Q	T	I	A	K	G	T	F	S	P	L	R	A	I	Q	T	M	H	L	A	Q	H-Slit1	
452	N	P	F	I	C	D	C	N	L	R	W	L	A	D	Y	L	H	K	N	P	I	E	T	S	G	A	R	C	E	S	P	K	R	M	H	R	R	R	I	E	D-Slit	
434	N	P	F	I	C	D	C	H	L	K	W	L	A	D	Y	L	H	T	N	P	I	E	T	S	G	A	R	C	T	S	P	R	R	L	A	N	K	R	I	G	H-Slit1	
492	S	L	R	E	E	K	F	K	C	S	-	W	G	E	L	R	M	K	L	S	G	E	C	R	M	D	S	D	C	P	A	M	C	H	C	E	G	T	T	V	D-Slit	
474	Q	I	K	S	K	K	F	R	C	S	G	T	E	D	Y	R	S	K	L	S	G	D	C	F	A	D	L	A	C	P	E	K	C	R	C	E	G	T	T	V	H-Slit1	
531	D	C	T	G	R	R	L	K	E	I	P	R	D	I	P	L	H	T	T	E	L	L	N	D	N	E	L	G	R	I	S	S	D	G	L	F	G	R	L	D-Slit		
514	D	C	S	N	Q	K	L	N	K	I	P	E	H	I	P	Q	Y	T	A	E	L	R	L	N	N	N	E	F	T	V	L	E	A	T	G	I	F	K	K	L	H-Slit1	

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